

Lorenza Trabalzini

Curriculum Vitae et Studiorum

Personal Information

Full name: Lorenza Trabalzini

Place and date of birth: Siena, 14 September 1960

Address: Via del Fosso 10/D7, 53100 Siena (SI), Italy

Citizenship: Italian

Marital status: Married, two children

Affiliation and Contacts

Department of Biotechnology, Chemistry and Pharmacy, University of Siena

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Education and Qualifications

- **1992** PhD in Pharmaceutical Sciences, University of Siena
- **1986** Professional qualification as Pharmacist
- **1985** Degree with honors in Pharmaceutical Chemistry and Technology, University of Siena
- **1979** Scientific High School Diploma, "G. Galilei" High School, Siena

Professional Experience

- **2002–present** Associate Professor of Biochemistry (BIO/10) at the Department of Molecular Biology (2002–2010), Department of Biotechnology (2011–2012), and Department of Biotechnology, Chemistry and Pharmacy (2012–present), University of Siena
- **2020–2026** Coordinator of the Regional PhD School in Biochemistry and Molecular Biology (BiBiM 2.0).
- **2022–present** Delegate for Teaching and Internationalization, Department of Biotechnology, Chemistry and Pharmacy
- **2022–present** Member of the Erasmus for Traineeship Committee, University of Siena
- **2015–2022** Delegate for Teaching, Department of Biotechnology, Chemistry and Pharmacy
- **2015–2021** Chair of the Degree Program Committee (CpD) of the Master's Degree in Pharmacy
- **2012–present** Member of the Degree Program Committee (CpD) of the Master's Degree in Pharmacy
- **2009–2012** Member of the Degree Program Committee (CpD) of the Master's Degree in Pharmaceutical Chemistry and Technology
- **2021–present** Member of the Academic Board of the 2nd level Master's Degree in Cosmetic Sciences and Technologies, University of Siena
- **2016–present** Founding Committee Member and Member of the Academic Board of the School of Specialization in Hospital Pharmacy, University of Siena
- **2012–present** Member of the Academic Board of the Regional PhD School in Biochemistry and Molecular Biology, University of Siena

- **2004–2012** Member of the Academic Board of the PhD School in Medical Biotechnology, University of Siena
- **2002–2003** Member of the Academic Board of the PhD School in Biochemical and Microbiological Sciences, University of Siena
- **1998–2002** Member of the Academic Board of the PhD School in Biotechnology, University of Siena
- **1993–1994** Visiting Scientist, University of North Carolina School of Medicine, Department of Medicine, Division of Hematology/Oncology, Chapel Hill, USA
- **1993–2002** Researcher in Biochemistry (BIO/10), Department of Molecular Biology, University of Siena
- **Feb–Nov 1990** PhD student, Department of Biochemistry and Biophysics, First School of Medicine, University of Naples
- **Feb–Jun 1989** PhD student, Laboratory of Genotoxicology and DNA Repair in Eukaryotes, Institut Curie, Biology Section, Paris, France
- **1988–1992** PhD student, PhD School in Pharmaceutical Sciences, University of Siena
- **1987–1988** Research Fellow, Institute of Biochemistry, University of Siena
- **1985–1986** Research Fellow, Department of Chemistry, University of Siena

Membership in Scientific Societies

- Italian Society of Biochemistry and Molecular Biology (SIB-BM) (since 1988)
- Biochemical Society (since 1997)
- Accademia dei Fisiocritici – Siena (since 2004)

International Exchanges: Coordinator of Erasmus agreements between the University of Siena and the Universities of Paris (France), Lyon (France), Valencia (Spain), Granada (Spain), Seville (Spain), Santiago de Compostela (Spain), Vic (Spain), and Istanbul (Turkey) in the field of Pharmacy.

Scientific activity: Coordinator of a research group and involved in national collaborations (University of Turin, University of Calabria, CNR Pisa, University of Milan–UNIMONT) and international collaborations (North Carolina State University–Kannapolis, University of Rochester Medical Center, Université de Paris, Queen Mary University of London).

Scientific production: Author of 73 articles indexed in Scopus (updated September 2026), 20 articles in non–impact factor journals, online journals and books, and over 150 conference abstracts.

H-index (Scopus, updated September 2026): 26

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Editorial Activities

- *Journal of Signal Transduction* (S. F. Retta, P. Chiarugi, L. Trabalzini, P. Pinton, A. M. Belkin, Special Issue “Reactive Oxygen Species: Friends and Foes of Signal Transduction”, 2012)
- *Methods in Molecular Biology* (L. Trabalzini and S. F. Retta, Volume “Ras Signaling – Methods and Protocols”, vol. 1120, 2014)
- *Methods in Molecular Biology* (L. Trabalzini, F. Finetti, S. F. Retta, Volume “Cerebral Cavernous Malformations (CCM) – Methods and Protocols”, vol. 2152, 2020)
- *Antioxidants* (S. F. Retta, M. Ushio-Fukai, C. Sobey, K. Griending, L. Trabalzini, Special Issue “Redox Signaling and Oxidative Stress in Cerebrovascular Diseases”, 2020)
- *Frontiers in Pharmacology* (F. Finetti, L. Trabalzini, R. Tundis, G. Valacchi, P. A. Evelson, Special Issue “Angiogenesis and Nutraceuticals”, 2021)

- *Biology* (F. Finetti, L. Trabalzini, C. Travelli, Special Issue “Inflammation in Cancer: A Target for Prevention and Therapy”, 2022)
- *International Journal of Molecular Sciences* (F. Finetti, L. Trabalzini, Special Issue “Natural Compounds in Cancer Therapy and Prevention”, 2022)
- *International Journal of Molecular Sciences* (F. Finetti, L. Trabalzini, Special Issue “Advances in Pharmacology of Prostaglandins”, 2022)
- *Biology* (F. Finetti, L. Trabalzini, C. Travelli, Special Issue “Inflammation in Cancer: A Target for Prevention and Therapy”, 2nd Edition, 2024)
- *Antioxidants* (B. Deguin, L. Trabalzini, R. Tundis, Special Issue “Antioxidant and Anti-Inflammatory Potential of Plants in Cancer Treatment”, 2025)
- *International Journal of Molecular Sciences* (F. Finetti, L. Trabalzini, Special Issue “Natural Compounds in Cancer Therapy and Prevention”, 2nd Edition, 2025)
- *International Journal of Molecular Sciences* (F. Finetti, L. Trabalzini, Special Issue “Tumor Angiogenesis and Metastasis: From Molecular Signalling to Therapeutic Approaches”, 2025)
- *Discover Oncology* (F. Finetti, L. Trabalzini, Collection “Signaling Pathways Driving Tumor Metastasis: Novel Therapeutic Targets and Translational Strategies”, 2025)

Guest Associate Editor for *Frontiers*

Member of the Editorial Board of *International Journal of Nutrition and Food Sciences* and *International Journal of Molecular Sciences*

Reviewer for numerous international journals and funding agencies, including the Alzheimer’s Association International Research Grant Program (since 2011), CNR–FIRB program (since 2012), and University of Verona Joint Projects (2015).

Previous Research Lines

Research activity over several years in the following areas:

1. Study of photobiological and phototherapeutic properties of natural and synthetic furocoumarins and furanocromones in photochemotherapy of skin diseases and in photophoresis.
2. Study of the presence and role of cyclic nucleotides and related enzymatic systems in higher plant cells.
3. Phenotypic characterization of *Saccharomyces cerevisiae* strains of oenological interest; *S. cerevisiae* as a model for studying stress responses in eukaryotic cells.
4. Study of the function of low-molecular weight G proteins and their effectors and regulators in cell activation and proliferation processes.

Ongoing Research Projects

1. Molecular mechanisms of Cerebral Cavernous Malformations (CCM): focus on the physiopathological role of KRIT1 and its functional interactors, and identification of novel molecular interactions relevant to CCM pathogenesis, prevention, diagnosis and treatment.
2. Role of KRIT1 in cancer: investigation of KRIT1 in tumor onset and progression, with particular emphasis on melanoma, lung cancer and selected CNS tumors.
3. Pain mechanisms and neuroinflammation: role of the *ZHFX2* gene.
4. Biological activity of natural compounds and plant extracts for biomedical and nutraceutical applications, including avenanthramides, mushroom extracts, iridoids, berry and grape extracts, and *Phaseolus vulgaris*.
5. Importance of biodiversity conservation for human well-being: valorization of local plant varieties and their impact on health, with particular focus on *Phaseolus vulgaris* var. Venzazio, *Phaseolus coccineus* var. Copafam, and *Cyclanthera pedata* (Caigua).